

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A bulk paper feeding device with an intermediate conveyor, comprising:

a carrier capable of carrying a large quantity of paper;

a paper feeding mechanism for picking up and feeding one sheet at a time of the paper from the carrier; and

an intermediate conveyor for transporting a sheet of paper fed from the feeding mechanism to a main paper feeding table of a paper feeder on [[the]] a body of an image forming device or to the vicinity of a paper feeding port that faces main paper feeding means of [[the]] a paper feeder, said intermediate conveyor comprising paper transport means for transporting paper that has been fed from the paper feeding mechanism, disposed in a plurality at prescribed intervals from upstream to downstream along [[the]] an intermediate transport path thereof; and paper detecting means for detecting at least one edge from among the leading and trailing edges of the paper being transported, disposed in a plurality at intervals from upstream to downstream along the intermediate transport path, wherein, from upstream to downstream, at least one detecting means is located before and after each of the plurality of paper transport means.

Claim 2 (Currently Amended): The bulk paper feeding device with an intermediate conveyor as claimed in claim 1, further comprising control means for performing control in which the paper size is identified and [[the]] a paper transport control system of each paper transport means is varied on the basis of signals from the plurality of paper detecting means when initialization is performed upon completion of transport of a single sheet of paper onto the plurality of paper detecting means.

Claim 3 (Original): The bulk paper feeding device with an intermediate conveyor as claimed in claim 2, wherein the paper in the initialized state is positioned on the paper transport means disposed on the furthest downstream side of the intermediate transport path, and the leading edge of the paper is set in a position in which the paper can be fed by the main paper feeding means.

Claim 4 (Original): The bulk paper feeding device with an intermediate conveyor as claimed in claim 2, further comprising timekeeping means for measuring the time between the paper detecting means when the trailing edge of the paper moves at the time that transport-of paper on the plurality of paper detecting means is started in accordance with the start of paper feed by the main paper feeding means, wherein the control means adds a signal from the timekeeping means and controls the paper transport speed of each paper transport means.

Claim 5 (Original): The bulk paper feeding device with an intermediate conveyor as claimed in claim 2, further comprising transport speed detecting means for detecting the paper transport speed, wherein the control means adds a signal from the transport speed detecting means and controls the paper transport speed of each paper transport means in a stepless manner and in real time.

Claim 6 (Original): The bulk paper feeding device with an intermediate conveyor as claimed in claim 1, further comprising at least one drive means for driving each of the paper transport means mounted in the intermediate conveyor, and control means for controlling the drive means such that the paper size is identified and the paper transport control system of

each paper transport means is switched on the basis of signals from the plurality of paper detecting means.

Claim 7 (Original): The bulk paper feeding device with an intermediate conveyor as claimed in claim 6, wherein the drive means is a stepping motor.

Claim 8 (Original): The bulk paper feeding device with an intermediate conveyor as claimed in claim 1, wherein at least three paper transport means are disposed.

Claim 9 (Original): The bulk paper feeding device with an intermediate conveyor as claimed in claim 1, wherein the image forming device is a stencil printer which has a printing drum for winding a thermal stencil master produced by engraving, and whereby paper that has been fed from the intermediate conveyor is pressed against the thermal stencil master on the printing drum and printed by the feeding of ink from the interior of the printing drum.

Claim 10 (Withdrawn): A method for feeding paper by using a bulk paper feeding device with an intermediate conveyor comprising a carrier capable of carrying a large quantity of paper; a paper feeding mechanism for picking up and feeding one sheet at a time of the paper from the carrier; and an intermediate conveyor for transporting a sheet of paper fed from the feeding mechanism to a main paper feeding table of a paper feeder on the body of an image forming device or to the vicinity of a paper feeding port that faces main paper feeding means of the paper feeder, wherein sequential transport can be accomplished without the trailing edge of the front sheet coming into contact with the leading edge of the subsequent sheet in the paper feeding means or the vicinity of the paper feeding port even when there is no electrical connection with the body of the image forming device, by

detecting and identifying the size and transport speed of the paper being transported by the intermediate conveyor.

Claim 11 (Withdrawn): A bulk paper feeding device with an intermediate conveyor, comprising:

 a carrier capable of carrying a large quantity of paper;
 a paper feeding mechanism for picking up and feeding one sheet at a time of the paper from the carrier; and

 an intermediate conveyor for transporting a sheet of paper fed from the feeding mechanism to a main paper feeding table of a paper feeder on the body of an image-forming device or to the vicinity of a paper feeding port that faces main paper feeding means of the paper feeder,

 said intermediate conveyor comprising paper transport means for transporting paper that has been fed from the paper feeding mechanism, a pair of guiding means for guiding paper that is transported by the paper transport means to the main paper feeding table or to the vicinity of the paper feeding port, and a chassis for accommodating the paper transport means and the pair of guiding means.

Claim 12 (Withdrawn): The bulk paper feeding device with an intermediate conveyor as claimed in claim 11, wherein the paper transport means comprises a plurality of roller pairs composed of transport rollers disposed at intervals from upstream to downstream along the intermediate transport path and pressing rollers for pressing thereagainst, and at least one drive means for driving the transport rollers.

Claim 13 (Withdrawn): The bulk paper feeding device with an intermediate conveyor as claimed in claim 12, wherein the drive means is a stepping motor.

Claim 14 (Withdrawn): The bulk paper feeding device with an intermediate conveyor as claimed in claim 12, wherein the main paper feeding means comprises a main paper feeding roller for feeding the paper on the main feeding table, and wherein the transport roller from among the plurality of transport rollers that is disposed on the furthest downstream side of the intermediate transport path occupies a position in which pressure contact can be established with the main paper feeding roller.

Claim 15 (Withdrawn): The bulk paper feeding device with an intermediate conveyor as claimed in claim 12, further comprising unidirectional rotational driving force transmitting means provided to the shaft of the transport roller disposed at least on the furthest downstream side of the intermediate transport path.

Claim 16 (Withdrawn): The bulk paper feeding device with an intermediate conveyor as claimed in claim 15, further comprising braking force applying means for applying braking force to the transport roller disposed at least on the furthest downstream side of the intermediate transport path.

Claim 17 (Withdrawn): The bulk paper feeding device with an intermediate conveyor as claimed in claim 16, wherein the braking force is applied to the shaft of the transport roller or to the transport roller itself on the side to which rotational driving force is transmitted via the unidirectional rotational driving force transmitting means.

Claim 18 (Withdrawn): The bulk paper feeding device with an intermediate conveyor as claimed in claim 16, wherein the braking force is set to a level that increases toward the main paper feeding means.

Claim 19 (Withdrawn): The bulk paper feeding device with an intermediate conveyor as claimed in claim 11, wherein the pair of guiding means comprises an upper guiding member and a lower guiding member disposed opposite thereto, wherein at least one member from among the upper guiding member and the lower guiding member extends to the main feeding table or to the vicinity of the paper feeding port.

Claim 20 (Withdrawn): The bulk paper feeding device with an intermediate conveyor as claimed in claim 19, further comprising paper detecting means for detecting at least one edge from among the leading and trailing edges of the paper being transported, provided to either one of the upper guiding member and the lower guiding member, wherein the paper detecting means are disposed in a plurality at intervals from upstream to downstream along the intermediate transport path.

Claim 21 (Withdrawn): The bulk paper feeding device with an intermediate conveyor as claimed in claim 11, wherein the paper transport means comprises a plurality of roller pairs disposed at intervals from upstream to downstream along the intermediate transport path, and composed of transport rollers and pressing rollers for pressing thereagainst; wherein the pair of guiding means comprises an upper guiding member and a lower guiding member disposed opposite thereto; and wherein either one of the transport rollers and pressing rollers is disposed on either one of the upper guiding member and lower guiding member.

Claim 22 (Withdrawn): The bulk paper feeding device with an intermediate conveyor as claimed in claim 21, further comprising a biasing member provided to either of the upper guiding member and lower guiding member, for biasing the pressing rollers in the direction in which the pressing rollers are pressed against the transport rollers.

Claim 23 (Withdrawn): The bulk paper feeding device with an intermediate conveyor as claimed in claim 21, wherein portions of the transport rollers designed to face the paper transport path protrude from the lower guiding member.

Claim 24 (Withdrawn): The bulk paper feeding device with an intermediate conveyor as claimed in claim 21, wherein the main paper feeding means comprises a main paper feeding roller for feeding the paper on the main feeding table, and wherein the transport roller from among the plurality of transport rollers that is disposed on the furthest downstream side of the intermediate transport path occupies a position in which pressure contact can be established with the main paper feeding roller.

Claim 25 (Withdrawn): The bulk paper feeding device with an intermediate conveyor as claimed in claim 21, further comprising paper detecting means for detecting at least one edge from among the leading and trailing edges of the paper being transported, provided to either one of the upper guiding member and the lower guiding member, wherein the paper detecting means are disposed in a plurality at intervals from upstream to downstream along the intermediate transport path.

Claim 26 (Withdrawn): The bulk paper feeding device with an intermediate conveyor as claimed in claim 21, further comprising unidirectional rotational driving force transmitting means provided to the shaft of the transport roller disposed at least on the furthest downstream side of the intermediate transport path.

Claim 27 (Withdrawn): The bulk paper feeding device with an intermediate conveyor as claimed in claim 26, further comprising braking force applying means for applying braking force to the transport roller disposed at least on the furthest downstream side of the intermediate transport path.

Claim 28 (Withdrawn): The bulk paper feeding device with an intermediate conveyor as claimed in claim 27, wherein the braking force is applied to the shaft of the transport roller or to the transport roller itself on the side to which rotational driving force is transmitted via the unidirectional rotational driving force transmitting means.

Claim 29 (Withdrawn): The bulk paper feeding device with an intermediate conveyor as claimed in claim 27, wherein the braking force is set to a level that increases toward the main paper feeding means.

Claim 30 (Withdrawn): The bulk paper feeding device with an intermediate conveyor as claimed in claim 11, wherein the image forming device is a stencil printer which has a printing drum for winding a thermal stencil master produced by engraving, and whereby paper that has been fed from the intermediate conveyor is pressed against the thermal stencil master on the printing drum and printed by the feeding of ink from the interior of the printing drum.

Claim 31 (Withdrawn): A bulk paper feeding device with an intermediate conveyor, comprising:

a carrier capable of carrying a large quantity of paper;

a paper feeding mechanism for picking up and feeding one sheet at a time of the paper from the carrier; and

an intermediate conveyor for transporting a sheet of paper fed from the feeding mechanism to a main paper feeding table of a paper feeder on the body of an image forming device or to the vicinity of a paper feeding port that faces main paper feeding means of the paper feeder;

at least one of paper length detecting means for detecting paper length, and paper presence detecting means for detecting the presence or absence of paper on the main feeding table, which are provided on the main feeding table; and

a shutter mechanism, provided to the intermediate conveyor, for selectively shielding at least one of the paper presence detecting means and the paper length detecting means.

Claim 32 (Withdrawn): The bulk paper feeding device with an intermediate conveyor as claimed in claim 31, wherein the paper presence detecting means is caused to switch on/off signals thereof by a closing and opening operation.

Claim 33 (Withdrawn): The bulk paper feeding device with an intermediate conveyor as claimed in claim 31, further comprising control means for controlling the operation of the shutter mechanism based on the signals from the paper presence detecting means and paper detecting means, wherein the control means is disposed on the side of the bulk paper feeding device with an intermediate conveyor.

Claim 34 (Withdrawn): The bulk paper feeding device with an intermediate conveyor as claimed in claim 33, wherein the shutter mechanism comprises a shielding member for selectively shielding the detecting means, and shield driving means for driving the shielding member.

Claim 35 (Withdrawn): The bulk paper feeding device with an intermediate conveyor as claimed in claim 31, wherein the bulk paper feeding device with an intermediate conveyor can move between a connected position in which paper that is fed from the intermediate conveyor can be taken in and fed by the main feeding means, and an unconnected position that is spaced apart from the connected position in a state in which the intermediate conveyor is placed on the main feeding table retained at a prescribed height, and wherein the intermediate conveyor is placed on the main feeding table via the shutter mechanism.